[FOUNDED IN 1906 AS THE AMERICAN QUARTERLY OF ROENTGENOLGY]

The AMERICAN JOURNAL OF ROENTGENOLOGY AND RADIUM THERAPY

Editor: LAWRENCE REYNOLDS, M.D.

VOLUME 33

JANUARY TO JUNE, 1935

CHARLES C THOMAS : SPRINGFIELD, ILLINOIS
MCMXXXV

COPYRIGHT, 1935
BY AMERICAN ROENTGEN RAY SOCIETY, INC.

CONTENTS OF VOLUME 33

ORIGINAL ARTICLES

Visualization of Suprasellar Tumors by Encephalography	*Wallace B. Hamby, M.D.* *W. James Gardner, M.D.*	1
Roentgen Studies on the Fate of Calcium in the Bones of Retained Dead Rabbit Fetuses	*J. W. Lawlah, M.S., M.D.* *P. C. Hodges, Ph.D., M.D.*	10
Roentgenographic Study of Gastrointestinal Motility in Rachitic Rats	*Robert S. Harris* *John W. M. Bunker*	25
Benign Stricture of the Stomach and Esophagus	*Jacob. Sagel, M.D.*	31
Congenital Diaphragmatic Hernia	*J. Friedman, M.D.*	36
Fracture of the Anterior Superior Spine of the Ilium in One Case, and Anterior Inferior in Another Case	*Imre Weitzner, M.D.*	39
Technique and Results of Irradiation in Carinoma of the Breast	*George E. Pfahler, M.D.* *Jacob H. Vastine, M.D.*	41
Dosage and Technique in the Treatment of Carcinoma of the Uterine Fundus with Radium	*Harry H. Bowing, M.D.* *Robert E. Fricke, M.D.*	50
Pigmented Moles and Their Treatment	*H. Ford Anderson, M.D.* *C. Augustus Simpson, M.D.*	54
The Relative Value of Surgery, Radium and Roentgen Therapy in Carcinoma of the Breast	*Isaac Levin, M.D.*	59
Roentgen Treatment of Carbuncles	*Whitmer B. Firor, M.D.*	71
Preliminary Study of the Effect of Artificial Fever upon Hopeless Tumor Cases	*Stafford L. Warren, M.D.*	75
The Dangers of Roentgenoscopy and Methods of Protection against Them. III. The Protective Power of the Barium-Filled Stomach	*Earl I. L. Cilley, M.D.* *E. T. Leddy, M.D.* *B. R. Kirklin, M.D.*	88
A Simplified Practical Method of Film Identification	*William R. Stecher, M.D.*	106
A "Shock-Proof" Therapy Drum for the Lower Voltages	*O. O. Feaster, M.D.*	109
Preoperative Irradiation of Cortical Renal Tumors	*Charles A. Waters, M.D.*	149
A Historical and Practical Consideration of Pyelographic Media	*A. E. Goldstein, M.D.* *B. S. Abeshouse, M.D.*	165
Aneurysm of the Renal Artery	*Miley B. Wesson, M.D.* *Charles C. Fulmer, M.D.*	176
A Roentgenological Study of Pulmonary Ventilation: A Method for the Prediction of Normal Pulmonary Capacities Based upon Roentgenological Measurements	*Walter W. Fray, M.D.*	179

The Tuberculous Lung Following Thoracoplasty from the Roentgenographic Standpoint	*Waldo R. Oeschsli, M.D.*	191
A Study of "Rapid Cholecystography"	*Tu-shan Jung, M.D.* *Sherwood Moore, M.D.*	194
Coincident Scirrhous Lesions of the Stomach and Colon	*Marcy L. Sussman, M.D.*	205
Subluxation of the Apophyseal Articulations with Bony Impingement as a Cause of Back Pain	*Lee A. Hadley, M.D.*	209
Further Observations on the Roentgen Treatment of Pituitary Tumors	*G. E. Pfahler, M.D., D.Sc.* *E. W. Spackman, M.D., M.Sc. (Med.)*	214
Factors Influencing the Decomposition of Iodides by Roentgen and Gamma Rays	*Helen Quincy Woodard, Ph.D.*	227
On the Relation between the Roentgen and the Erythema Dose	*Charles C. Lauritsen*	235
The Radiologist and the Hospital	*G. W. Greier, M.D.*	237
A Cooling System for Developing Solution	*Percy D. Hay, Jr., M.D.*	252
The Physical Determination of Radium Dosages	*Otto Glasser, Ph.D.*	293
Physical Factors in Teleradium Therapy	*Wilhelm Stenstrom, Ph.D.*	296
Physical Factors in Intracavity Radium Therapy	*J. L. Weatherwax, M.A.*	302
Physical Factors in Interstitial Radium Therapy	*Edith H. Quimby*	306
Drosophila Eggs in Radium Dosimetry	*Charles Packard*	317
Clinical Considerations Influencing Radium Dosage	*Maurice Lenz, M.D.* *J. R. Freid, M.D.*	319
Factors Influencing the Determination of Radiosensitivity of Cancers of the Oral Cavity and Upper Respiratory Tracts	*Arthur Purdy Stout, M.D.*	327
Histologic Structure of Carcinoma of the Cervix Uteri and its Relation to Radiosensitivity	*Charles C. Norris, M.D.*	332
The Value of Roentgen Rays in the Diagnosis and Surgical Treatment of Extrapulmonary Intrathoracic Tumors	*Stuart W. Harrington, M.D.*	340
Roentgen Diagnosis of Aneurysms of the Innominate Artery	*Chester H. Warfield, M.D.*	350
An Evaluation of the Roentgen Findings in Gonorrheal Arthritis	*Peter J. Kapo, B.S., M.D.*	359
Primary Hemangioma of the Third Lumbar Vertebra	*S. K. Livingston, M.D., F.A.C.S.*	381
Pellegrini-Stieda's Disease	*Leo F. Miller, B.S., M.D.* *Louis J. Miller, M.D.*	383
The Biological Effects of Roentgen Rays on *Planaria dorotocephala*	*F. G. Meserve* *Mary K. Kenney*	386

The Dangers of Roentgenoscopy and Methods of Protection against Them. IV. A Detailed Consideration of the Doses Received by the Fingers of the Examiner	*E. I. L. Cilley, M.D.* *B. R. Kirklin, M.D.* *E. T. Leddy, M.D.*	390
Roentgen Dermatitis Treated with Fresh Whole Leaf of Aloe Vera	*C. E. Collins, D.D.S., M.D.* *Creston Collins, M.S.*	396
Simultaneous Stereoscopic Study of the Nasal Accessory Sinuses	*Frank Huber, M.D.*	410
Small Radium Element Cells	*Hyman Strauss, M.D.*	414
Ossification (so-called "Calcification") of Normal Laryngeal Cartilages Mistaken for Foreign Body	*W. Edward Chamberlain, M.D.* *Barton R. Young, M.D.*	441
Fusospirochetal Pneumonia	*Carleton B. Peirce, M.D.* *Henry Field, Jr., M.D.*	451
Roentgenologic Determination of Normal and Abnormal Results following Operation on the Stomach and Duodenum	*B. R. Kirklin, M.D.*	468
Interposition of the Colon following Induced Phrenic Paralysis	*Paul Slavin, M.D.*	481
Roentgenographic Evidence in the Tuberosity of the Humerus of Recent and Old Injuries to the Supraspinatus Tendon Attachment	*Lucas S. Henry, M.D.*	486
Certain Aspects of Roentgenology of the Spine from the Orthopedic Viewpoint	*Raymond W. Lewis, M.D.*	491
Lateral Roentgenography of the Neck of the Femur	*Lawrence Jones, M.D.*	504
A Technique for the Roentgen Examination of the Lumbosacral Articulation	*Paul C. Williams, M.D.* *Palmer E. Wigby, M.D.*	511
Oxycephaly: Report of Two Cases	*Alexander Simon, M.D.* *Raoul Ramos, M.D.* *Watson W. Eldridge, M.D.*	516
Cineradiography	*Russell J. Reynolds, C.B.E., M.B.*	522
The Effect of Roentgen Therapy upon Tumors of the Kidney	*Albert E. Boethe, M.D.*	529
A Small Platinum Needle Designed for the Use of Various Strengths of Radium Element Interstitially	*Norman Treves, M.D.*	537
An Improved Stereoscopic Examination of the Mastoid Process Employing the Potter-Bucky Diaphragm	*William R. Stecher, M.D.*	557
The "Phrygian Cap" in Cholecystography: A Congenital Anomaly of the Gallbladder	*Edward A. Boyden, Ph.D.*	589
Intrahepatic Gallbladder	*E. P. McNamee, M.D.*	603
The Roentgenologic Significance of "Milk of Calcium" Bile	*Karl Kornblum, M.D.*, *Wendell C. Hall, M.D.*	611

Advantages of Intensified Oral Cholecystography	*William H. Stewart, M.D.* *H. Earl Illick, M.D.*	624
Cholecystographic Diagnosis of Papillomas and Tumors of the Gallbladder	*Claude Moore, M.D.*	630
The Treatment of Pulmonary Cavities	*Louis H. Fales, M.D., F.A.C.P.* *E. A. Beaudet, M.D.*	636
Roentgen Study of the Gastrointestinal Tract in Chronic Idiopathic Adult Tetany	*Eugene P. Pendergrass, M.D.* *Bernard I. Comroe, M.D.*	647
Congenital Anomalies of the Alimentary Tract; with Special Reference to the Congenitally Short Esophagus	*Willis F. Manges, M.D.* *Louis H. Clerf, M.D.*	657
Mortality Study in Carcinoma of the Uterine Cervix Treated by Irradiation	*Robert E. Fricke, M.D.*	670
Radium in the Treatment of Metastatic Epidermoid Carcinoma of the Cervical Lymph Nodes	*Douglas Quick, M.B. (Tor.)*	677
Radium Dosage and Technique in Carcinoma of the Skin; with Special Reference to Interstitial Irradiation with Platinum Iridium Needles	*H. N. Cole, M.D.* *J. R. Driver, M.D.*	682
Radium Dosage and Technique in Carcinoma of the Tonsil, Pharynx, and Larynx	*Max Cutler, M.D.*	690
Design of a Flexible Radium Bomb with Adequate Protection, Delivering a Homogeneous Field of Radiation at Various Distances	*Wm. S. Newcomet, M.D.* *B. A. Hughes, M.D.*	694
The Use and Abuse of Interstitial Irradiation	*Albert Soiland, M.D.*	698
The Roentgenologic Diagnosis of Tumors in the Sellar Region	*Bernard H. Nichols, M.D.*	733
Enlargement of the Defect in the Air Shadow Normally Produced by the Choroid Plexus	*Cornelius G. Dyke, M.D.* *Charles A. Elsberg, M.D.* *Leo M. Davidoff, M.D.*	736
Reliability of Brain Tumor Localization by Roentgen Methods	*Fred Jenner Hodges, M.D.* *Vincent C. Johnson, M.D.*	744
The Responsibility of the Roentgenologist in the Detection of Intracranial Tumors	*Karl Kornblum, M.D.*	752
Suppuration in the Pneumatic Petrous Apex	*Henry K. Taylor, M.D.*	767
Bronchiolectatic Emphysema of Adults	*Homer H. Cherry, M.D.*	774
The Veiled Air Bubble in Hydropneumothorax	*Ephraim Korol, M.D.* *H. A. Scott, M.D.*	777
The Reëxpanded Lung	*Paul Default, M.D.*	781

The Dangers of Roentgenoscopy and Methods of Protection against Them. V. Some Considerations of the "Dose" Received during Examination of the Colon	*Earl I. L. Cilley, M.D.* *Eugene T. Leddy, M.D.* *B. R. Kirklin, M.D.*	787
Considerations Relative to the Evaluation of Ultraviolet Radiation in Absolute Units	*W. W. Coblentz*	793
Benign Lesions of the Eye, Ear, Nose and Throat	*G. Allen Robinson, M.D.*	801
The Treatment of Chronic Infection of the Parotid Gland	*G. M. Dorrance*	803
Deep Roentgen Therapy of the Bladder and Prostate	*A. T. Nisbet, M.D., Ch.M., D.P.H.*	807
Results of Radium Therapy in Benign Conditions of the Uterus	*James A. Corscaden, M.D.*	810
Benign Uterine Hemorrhage, with Special Consideration of Radium Therapy	*Henry Schmitz, M.D.*	819
Hazards in the Use of Radium in Cancer	*M. J. Sittenfield, M.D.*	825
A Tumor Classification for Diagnostic Radiotherapy	*J. Gershon-Cohen*	829
A Simple and Efficient Table for Post-Mortem Chest Roentgenography	*W. Lyle Allred, M.D.* *L. H. Garland, M.D.*	839